

SAFETY DATA SHEET APRIL 2015

File: CS3204AA GSA 7-10 Integral Fuel Tank Sealant/ Base Compound

Pacoima, CA 91331 - USA

- 1.1. Product Identifier: CS-3204 Part A Class A Base (ALL APPLICATION TIMES)
- Product Name: Integral Fuel Tank Sealant / Base compound Part-A
- Product reference: CS-3204 Part A Class A Compound

1.2. Product Use:

- Integral Fuel Tank Sealing Compound

CAGE Code: 14439
Flamemaster Corp.
Chem Seal Division
13576 Desmond Street
Pacoima, CA 91333 – USA

1.3. Manufacturer's Name:

Technical Contact:

Flamemaster Corp.
Tel: 818-890-1401
Fax: 818-890-6001
www.flamemaster.com

1.3.1 Suppliers Name (if not manufacturer)

1.4. Emergency Telephone: Chemtrec – Chemtrec International 800-424-9300 (North America) 703-527-3887 (Outside North America))

SPECI	FICATION: AMS-S	-8802 PART A	CLASS A BAS	E COMPOUND	ALL
NSN:	8030-00-753-5008	8030-00-753-5010	8030-00-753-4596	8030-00-965-2004	8030-00-842-8127
INSIN:	CS3204 A1/2 2.50Z	CS3204 A1/2 6OZ	CS3204 A1/2 1/2 PT	CS3204 A1/2 PINT	CS3204 A1/2 GALLON
	8030-00-386-3656	8030-00-753-5003	8030-00-753-5009	8030-00-753-4598	8030-00-723-5343
	CS3204 A-1 QT	CS3204 A-2 2.50Z	CS3204 A-2 6OZ	CS3204 A-2 1/2 PT	CS3204 A-2 PINT
	8030-00-723-5344	8030-00-841-6832	8030-00-889-3531	8030-00-007-8337	
	CS3204 A-2 QUART	CS3204 A-2 GALLON	CS3204 A-2 5-GAL	CS3204 A-2 50 GAL	

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OSHA/HCS STATUS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) CLASSIFICATION OF THE MIXTURE:

FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION (UNBORN CHILD) - Category 2
SPECIFIC TARGET ORGAN TOXICITY(REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 9.7 %

GHS LABEL REQUIREMENTS HAZARD PICTOGRAMS







SIGNAL WORD: DANGER

HAZARD STATEMENTS:

HIGHLY FLAMMABLE LIQUID AND VAPOR - (H225)
CAUSES SERIOUS EYE IRRITATION - (H319)
CAUSES SKIN IRRITATION - (H315)
SUSPECTED OF DAMAGING THE UNBORN CHILD - (H361d)
SUSPECTED OF CAUSING CANCER - (H351)
MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE - (H373)

PRECAUTIONARY STATEMENTS:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes , on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin (or in hair): Wash with plenty of soap and water. If skin irritation occurs seek medical attention
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

SUPPLEMENTAL LABEL ELEMENTS:

Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of concentrations above recommended limits causes headaches, drowsiness and nausea and could lead to unconsciousness or possibly death.

1-component mixtures: formaldehyde is released during the curing phase. Formaldehyde may cause irreversible effects, is irritating to the mucous membranes and may cause the skin to become sensitized.

Avoid any contact with skin or clothing and wash thoroughly after handling.

Emits toxic fumes when heated.

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Prolonged or repeated exposure may dry skin and / or cause skin irritation.

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family: Mixture of organic compounds

For the hazards of the composition, (SDS see Section 2).

GHS CLASSIFICATION:LIQUID POLYSULFIDE POLYMER // OSHA HAZARDS: TARGET ORGAN EFFECT,IRRITANT,FLAMMABLE LIQUID

EYE IRRITATION (CATEGORY 2)

SKIN IRRITATION (CATEGORY 2)

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)

AQUATIC, CHRONIC (CATEGORY 3)

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS): TOLUENE

FLAMMABLE LIQUIDS (CATEGORY 2),H225

SKIN IRRITATION (CATEGORY 2), H315

REPRODUCTIVE TOXICITY (CATEGORY 2), H361

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3), CENTRAL NERVOUS SYSTEM, H336

SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE (CATEGORY 2),H373

ASPIRATION HAZARD (CATEGORY 1),H304

ACUTE AQUATIC TOXICITY (CATEGORY 2),H401

2-BUTANONE

OSHA HAZARDS: FLAMMABLE LIQUID, TARGET ORGAN EFFECT, IRRITANT

TARGET ORGANS: CENTRAL NERVOUS SYSTEM

GHS CLASSIFICATION: 2-BUTANONE FLAMMABLE LIQUIDS (CATEGORY 2) ACUTE TOXICITY, ORAL (CATEGORY 5) EYE IRRITATION (CATEGORY 2A)

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE (CATEGORY 3), CENTRAL NERVOUS SYSTEM

OTHER HAZARDS: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS AND CRACKING

CALCIUM CARBONATE:

GHS CLASSIFICATION: CALCIUM CARBONATE

EYE DAMAGE (CATEGORY 1)
SKIN IRRITATION (CATEGORY 2)

SPECIFIC TARGET ORGAN TOXICITY-SINGLE EXPOSURE-(CATEGORY 3)

TITANIUM DIOXIDE

OSHA HAZARDS: CARCINOGEN

GHS CLASSIFICATION: TITANIUM DIOXIDE

SKIN IRRITATION: (CATEGORY 3) CARCINOGENICITY (CATEGORY 2)

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SUBSTANCE	H&P STATEMENTS	CAS	EINECS/ELINCS
% by weight in the product			
LIQUID POLYSULFIDE-POLYMER < 71%	H319,H335,H315,H412,H223,	68611-50-7	POLYMER
	P210,P270,P305+P351+P338		
	+P313,P306+P361,P370+P260		
TOLUENE (Methylbenzene) < 12%	H225,H304,H315,H319,H332,H336,	108-88-3	203-625-9
	H361,H371,H401,		
	P210P260,P281,P301+P310,P305+		
	P351+ P338,P331		
2 DUTANONE (MEV) 4150/		70.02.2	201 150 0
2-BUTANONE (MEK) <15%	H225,H303+H333,H319,H336,P210,	78-93-3	201-159-0
	P261,P305+P351+P338		
Titanium Dioxide <3%	H319,H335,H315,H332,H312,H302	13463-67-7	236-675-5
	H373,P305+P351+P313,P280+		
	P281,P262,P102,P280		
	. 201). 202). 102). 200		
Calcium Carbonate <35%	H319 P305+P351+P313,P280	72608-12-9	207-439-9

Section -4. FIRST-AID MEASURES

General: When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

Eye contact: Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

Recommended: Universal resistant foam, CO2, water, powder.

Agents to avoid: None known

Attention

Promptly remove all persons in the event of a fire from the fire area. If safe to do so, remove all containers from fire area as well.

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses.

HAZARDOUS DECOMPOSITION PRODUCTS INCLUDE: CARBON DIOXIDE, CARBON MONOXIDE, HALOGENATED COMPOUNDS, AND METAL OXIDE / OXIDES, FORMALDEHYDE

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Section -6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

7.2 Storage:

Observe label precautions. Store between 32/F and 95/F (0/C and 35/C) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

8.2 Exposure limits

Work place exposure limits (8 hour)

Substance	OSHA	ACGIH TWA
ALIPHATIC POLYSULFIDE-POLYMER	Not known	Not known
TOLUENE (Methylbenzene)*	200 ppm	20 ppm
2-BUTANONE (MEK) *	200 ppm	200 ppm
CALCIUM CARBONATE *	5 mg/m³ (RESPIRABLE FRACTION)	3 mg/m³ (RESPIRABLE FRACTION)
CALCIUM CARBONATE *	15mg/m³ (TOTAL DUST)	10 mg/m³ (TOTAL DUST)
TITANIUM DIOXIDE *	15mg/m³ (TOTAL DUST)	10 mg/m³ (TOTAL DUST)
* can be absorbed through skin		

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8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

Respiratory protection:

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

Hand protection:

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

Eye protection:

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

Skin protection:

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

9. PHYSICAL AND CHEMICAL PROPERTIES

• Physical state at: 68 º F (20 º C) Liquid

• Flash point: 62 ° F (16.67 ° C) Method: TCC

• Specific gravity at: 68 ° F (20 ° C) 1.55 g/cm3

• Vapor Density: N/A

• Lower Explosive Limit (% vol.): 1.3 •Upper Explosive Limit '(% vol.): 7.1 • Miscibility in water at 20 º C: Negligible

VOC: 218 g/l

• Ph: 8.5

• Volatile by Volume %: 15

• Vapor pressure at: 68 º F (20 º C) 2 mm Hg

• Color: White

• Appearance: Paste •Odor: Polysulfide Odor • Boiling Point: 175-350°F

Material Supports Combustion : Yes

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as:

• Carbon Monoxide

• Halogenated Compounds

• Sulfur Oxides

• Oxides of Carbon, Nitrogen, Sulfur Dioxide, Trace Hydrogen Sulfide

Carbon Dioxide

Metal Oxide / Oxides

Formaldehyde

Smoke

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms and signs of overexposure include headache, dizziness, fatigue, muscular weakness, drowsiness, reduced fetal weight, increase in fetal deaths, skeletal malformations, and in extreme cases loss of consciousness Repeated or prolonged contact with the preparation may cause Defatting of the skin resulting in non-allergic dermatitis and absorption through the skin.

The liquid splashed in the eyes causes serious eye irritation and damage.

Irritating to mouth, throat and stomach. Ingestion causes reduced fetal weight, increased fetal deaths and skeletal malformations

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ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
			"	
Calcium Carbonate	LD50 ORAL	Rat	6450 mg/kg	-
Butanone	LC50 Inhalation Vapor	Rat	11243 ppm	4 Hours
	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 ORAL	Rat	2737 mg/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 Hours
	LC50 Inhalation Vapor	Rat	8000 ppm	4 Hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 ORAL	Rat	636 mg/kg	-
Titanium Dioxide	LD50 ORAL	Rat	>10g/kg	-

May cause damage to organs through prolonged or repeated exposure.

Suspected of causing cancer. Risk depends on level and duration of exposure.

Suspected of damaging the unborn child.

CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP	CAS#
TOLUENE:	3	-	-	108-88-3
TITANIUM DIOXIDE :	2B	-	-	13463-67-7

SPECIFIC TARGET ORGAN TOXICITY-STOT (SINGLE EXPOSURE)

BUTANONE - CATEGORY 3

LIQUID POLYMER - CATEGORY 3

TOLUENE - CATEGORY 3

LIQUID POLYMER - CATEGORY 3

SPECIFIC TARGET ORGAN TOXICITY-STOT (REPEATED EXPOSURE)

TOLUENE - CATEGORY 2

TARGET ORGANS: BRAIN, BLOOD, KIDNEYS, LUNGS, REPRODUCTIVE SYSTEM, LIVER, HEART, PERIPHERAL NERVOUS SYSTEM, GASTROINTESTINAL TRACT, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM, EYE, LENS AND/OR CORNEA.

ASPIRATION HAZARD: TOLUENE - CATEGORY 1

ATE VALUE: Oral - 8287.8 mg/kg

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Toxicity:

Product / Ingredient	Result	Species	Exposure	
Titanium Dioxide	Acute LC50>100mg/l Fresh Water	Daphnia	48 Hours	

Persistance and Degradability:

Product / Ingredient	Aquatic Half Life	Photolysis	Biodegradability
Toluene	-	-	Readily

Bioaccumulative Potential:

Product / Ingredient	LogP(ow)	BCF	Potential
Butanone	.29	-	low
Toluene	2.73	8.32	low

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Mobility in Soil: Not Available

13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations. React with curing agent and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

14. TRANSPORT INFORMATION

DOT: § 172.101 HAZARDOUS MATERIALS TABLE

UN Number: 1133

Proper Shipping Name: Adhesives

Labels: Flammable Liquid



Hazard Class: 3 Subclass: NO

Packaging Group: III

Limited Quantity: Passenger aircraft: 60 Liter (16 gallon)

Cargo aircraft only: 220 Liter (58 gallon)

Vessel stowage: A

ERG: 128

NMFC: 4620 SUB.5 – CL.60 Schedule B # 3506.91.0000 IATA:

UN Number: 1133

Proper Shipping Name: Adhesives

Labels: Flammable Liquid

Hazard Class: 3 Subclass: NO

Packaging Group: III

Passenger Air Packing Instruction: 309
Passenger aircraft: 60 Liter (16 gallon)
Cargo Air Packing Instruction: 310
Cargo aircraft only: 220 Liter (58 gallon)

IMDG:

UN Number: 1133

Proper Shipping Name: Adhesives

Label: 3

Hazard Class: 3 Subclass: NO

Packaging Group: III EMS No: F, E – S, D

15. REGULATORY INFORMATION

US Regulations Federal				
chemical (s) subject to the reporting	Chemical Name	CAS No	Weight %	Threshold limit
requirements of section 313 of Title III				
and of 40 CFR 372 (SARA)				
	TOLUENE	108-88-3	5% - 12%	1.0%
İ	(Methylbenzene)		<u> </u>	
	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
	2-BUTANONE	78-93-3	<15%	UNKNOWN
	Calcium Carbonate	72608-12-9	<35%	Unknown
	Titanium Dioxide	*13463-67-7	< 3%	15mg/m³
<u> </u>	*(DELE	TED CAS# 98084-96	-9)	

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

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US Regulations State

egulations State_				
California Proposition 65	TOLUENE	108-88-3	5% - 12%	UNKNOWN
(Developmental – Female)				
Massachusetts	TOLUENE	108-88-3	5% - 12%	UNKNOWN
New Jersey	TOLUENE	108-88-3	5% - 12%	UNKNOWN
Pennsylvania	TOLUENE	108-88-3	5% - 12%	UNKNOWN
Rhode Island	TOLUENE	108-88-3	5% - 12%	UNKNOWN
California Proposition 65	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
(Developmental – Female)	LIQUID POLYMER	68611-50-7	50%-71%	
Massachusetts	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
New Jersey	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
Pennsylvania	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
Rhode Island	LIQUID POLYMER	68611-50-7	50%-71%	UNKNOWN
California Proposition 65 (Developmental – Female)	2-BUTANONE	78-93-3	<15%	UNKNOWN
Massachusetts	2-BUTANONE	78-93-3	<15%	UNKNOWN
New Jersey	2-BUTANONE	78-93-3	<15%	UNKNOWN
Pennsylvania	2-BUTANONE	78-93-3	<15%	UNKNOWN
Rhode Island	2-BUTANONE	78-93-3	<15%	UNKNOWN
California Proposition 65	Calcium Carbonate	72608-12-9	<35%	UNKNOWN
(Developmental – Female)				ONKINOWIN
Massachusetts	Calcium Carbonate	72608-12-9	<35%	UNKNOWN
New Jersey	Calcium Carbonate	72608-12-9	<35%	UNKNOWN
Pennsylvania	Calcium Carbonate	72608-12-9	<35%	UNKNOWN
Rhode Island	Calcium Carbonate	72608-12-9	<35%	UNKNOWN
California Proposition 65	Titanium Dioxide	13463-67-7	<3%	UNKNOWN
(Developmental – Female)			 	OINKINO WIN
Massachusetts	Titanium Dioxide	13463-67-7	<3%	UNKNOWN
New Jersey	Titanium Dioxide	13463-67-7	<3%	UNKNOWN
Pennsylvania	Titanium Dioxide	13463-67-7	<3%	UNKNOWN
Rhode Island	Titanium Dioxide	13463-67-7	<3%	UNKNOWN

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United States Inventory(TSCA 8B): Not Determined

Australia Inventory (AICS) : At Least One Component Is Listed

Canada Inventory (DSL) : Not Determined

China Inventory (IECSC) : All Components Are Listed Or Exempted

Japan Inventory (ENCS) : At Least One Component Is Not Listed

Korea Inventory (KECI) : At Least One Component Is Not Listed

New Zealand (NZloC) : Not Determined

Philippines Inventory (PICCS) : At Least One Component Is Not Listed

Europe Inventory (REACH) : Please contact your supplier concerning the status of this material

United States: Sara 302/304 (Sara 304 RQ): Not Applicable

Information On Ingredients: None Were Found

Sara 311/312

Classification: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Information On Ingredients:

Butanone: Fire Hazard, Immediate (acute) Health Hazard **Polysulfide Polymer:** Immediate (acute) Health Hazard

Toluene: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic) Health Hazard

Titanium Dioxide: Delayed (chronic) Health Hazard

Sudden Release Of Pressure: No Products

Reactivity: No Products
Sara 313 Notification: *

Toluene - Cas# 108-88-3 - 3-7% Concentration

California Prop. 65: Warning

This product contains a chemical known by the State of California to cause birth defects or other reproductive harm.

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^{*} Do not detach SARA 313 notifications from SDS. All copies of SDS must include SARA 313 notifications.

Canada



Class B – Flammable
TOLUENE
2-BUTANONE



Class D - Poisonous and Infectious materials Division 2: Materials Causing Other Toxic Effects D2A TOLUENE D2B TOLUENE

Liquid Polysulfide Polymer CAS#68611-50-7 2-BUTANONE CAS#78-93-3 Titanium Dioxide CAS# 13463-67-7 Calcium Carbonate CAS# 72608-12-9

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Listed National Pollutant Release Inventory (NPRI):TOLUENE CAS:108-88-3

2-BUTANONE CAS#78-93-3

Liquid Polysulfide Polymer cas#68611-50-7

Calcium Carbonate CAS#72608-12-9

Titanium Dioxide CAS#13463-67-7

Revision Notes: A

16. OTHER INFORMATION

HEALTH	2	
FLAMMABILITY	3	
REACTIVITY	0	
PPE	Н	

HEALTH	2
FLAMMABILITY	3
REACTIVITY	0
PPE	Н







Conversion to ANSI format

NFPA HMIS PPE

Preparer: Flamemaster / Compliance

Rev-A 4/20/2015

Supersedes (conversion)

Containers: plastic jars, metal cans

cartridge kits

Limited Quantity See SDS Section 14

Maximum container size 50 Gallons / 190 Liters

End of Safety Data Sheet

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SAFETY DATA SHEET FEBRUARY 2014

File: CS3204BA GSA 07-10 INTEGRAL FUEL TANK SEALANT/CATALYST

Pacoima, CA 91331 - USA

1.1. Product Identifier: CS-3204 Part B Class A (all application times)

- Product Name:Integral Fuel Tank Sealant / Catalyst Part B

- Product reference: CS-3204-B

1.2. Product Use:

-Integral Fuel Tank Sealant

1.3. Manufacturer's Name:

CAGE Code: 14439 Flamemaster Corp. **Chem Seal Division** 13576 Desmond Street

Pacoima, CA 91333 - USA

Technical Contact: Flamemaster Corp.

> Tel: 818-890-1401 Fax: 818-890-6001

www.flamemaster.com

1.4. Emergency Telephone:

Chemtrec – Chemtrec International 800-424-9300 (North America)

703-527-3887 (Outside North America))

1.3.1 Suppliers Name (if not manufacturer)

	Specification: AMS	-S-8802	Catalyst Part B	CLASS	Α
NSN:	8030-00-753-5008	8030-00-753-5010	8030-00-753-4596	8030-00-965-2004	8030-00-842-8127
INSIN.	CS3204 A1/2 2.50Z	CS3204 A1/2 6OZ	CS3204 A1/2 1/2 PT	CS3204 A1/2 PINT	CS3204 A1/2 GALLON
	8030-00-386-3656	8030-00-753-5003	8030-00-753-5009	8030-00-753-4598	8030-00-723-5343
	CS3204 A-1 QT	CS3204 A-2 2.50Z	CS3204 A-2 6OZ	CS3204 A-2 1/2 PT	CS3204 A-2 PINT
	8030-00-723-5344	8030-00-841-6832	8030-00-889-3531	8030-00-007-8337	
	CS3204 A-2 QUART	CS3204 A-2 GALLON	CS3204 A-2 5-GAL	CS3204 A-2 50 GAL	

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Section -2. HAZARD (S) IDENTIFICATION

ACUTE TOXICITY (ORAL) 4, H302 ACUTE TOXICITY (INHALATION) 4, H332 SKIN SENSITIZATION 1, H317 CARCINOGENICITY 2, H351

TOXIC TO REPRODUCTION (FERTILITY) 2, H361f

SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373

Percentage of ingredients of unknown toxicity: 9.5%

For A Complete List of H-Statements and Classifications See Section 16

OSHA / HCS STATUS : THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

Human and Environmental Hazards:

Harmful by Inhalation and / or Swallowing

May Cause an Allergic Skin Reaction

Suspected of Damaging Fertility

Suspected of Causing Cancer

May Cause Damage to Organs through Prolonged or Repeated Exposure

HAZARD PICTOGRAMS:





SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Harmful by Inhalation and / or Swallowing
May Cause an Allergic Skin Reaction
Suspected of Damaging Fertility
Suspected of Causing Cancer

May Cause Damage to Organs through Prolonged or Repeated Exposure

Full text of P statements associated to this compound:

- P101+P102+P103: If medical advice is needed, have product container or label at hand. Keep out of reach of children.
- Read label before use
- P202: Do not handle until all safety precautions have been read and understood
- P210: Keep away from heat/sparks/open flames and hot surfaces-No Smoking
- P240:Ground/bond container and receiving equipment
- P261+P262+P263+P264:Avoid breathing dust/fumes/gas/mist/vapours/spray.Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling.
- P270+P271+P273: Do not eat drink or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment.
- P281+P280: Use personal protective equipment as required. Wear protective gloves/ protective clothing/ eye protection/face protection
- P301+P310+P331: If swallowed: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting.
- P305+P351+P338+P315: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice attention.
- P304+P340+P314: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell
- P342+P340+P315: If experiencing respiratory symptoms: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice/attention.
- P302+P352: If on skin: Wash with plenty of soap and water
- P306+P361: If on clothing: Remove/ take off immediately all contaminated clothing
- P402+P403+P404: Store in a dry place. Store in a well ventilated space. Store in a closed container.
- P233+P234+P235: Keep container tightly closed. Keep only in original container. Keep cool.

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HAZARDS NOT OTHERWISE CLASSIFIED: OXIDISING POTENTIAL: Contact with combustible material may result in fire. Keep away from combustible materials. This material increases the risk of fire and may aid in combustion. Prolonged or repeated exposure may dry skin and cause irritation

Section -3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME: POLYPHENYL, QUARTER AND HIGHER

MAGNESIUM CARBONATE

Chemical family: Mixture of organic compounds
For the hazards of the composition, (SDS see Section 2).

CHEMICAL NAME: MANGANESE DIOXIDE CAS# 1313-13-9 EC# 215-202-6 <65% by weight OSHA HAZARDS: TARGET ORGAN EFFECT, TOXIC BY INHALATION TARGET ORGANS: NERVES, LUNGS **GHS CLASSIFICATION:** ACUTE TOXICITY, ORAL (CATEGORY 4) - H302 ACUTE TOXICITY, INHALATION (CATEGORY 4) - H332 **CHEMICAL NAME: TERPHENYL, HYDROGENATED** EC# 262-967-7 CAS# 61788-32-7 <50% by weight AQUATIC CHRONIC (CATEGORY 4) - H413 **CHEMICAL NAME: ZEOLITES** CAS#1318-02-1 EC# 215-283-8 <15% by weight **NOT CLASSIFIED CHEMICAL NAME: TALC** CAS# 14807-96-6 EC# 238-877-9 <10% by weight **NOT CLASSIFIED CHEMICAL NAME: CARBON BLACK** CAS# 1333-86-4 EC# 215-609-9 <10% by weight **NOT CLASSIFIED CHEMICAL NAME: TERPHENYL** CAS# 26140-60-3 EC# 247-477-3 <10% by weight AQUATIC ACUTE (CATEGORY 1) - H400 AQUATIC CHRONIC (CATEGORY 1) - H410 **CHEMICAL NAME: 1,3 DIPHENYLGUANIDINE** CAS# 102-06-7 EC# 203-002-1 <3% by weight ACUTE TOXICITY (CATEGORY 4) - H302 SKIN IRRITATION (CATEGORY 2) - H315 EYE IRRITATION (CATEGORY 2) - H319 REPRODUCTIVE (CATEGORY 2) - H361f (FERTILITY) STOT-SINGLE EXPOSURE (CATEGORY 3) - H335 AQUATIC CHRONIC (CATEGORY 2) - H411 CHEMICAL NAME: BIS(PIPERIDINOTHIOCARBONYL) TETRASULFIDE EC# 204-406-0 <3% by weight CAS# 120-54-7 SKIN SENSITIVITY (CATEGORY 1) - H317

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CAS# 68956-74-1

CAS# 546-93-0

<10% by weight

<10% by weight

Section -4. FIRST-AID MEASURES

General: When in doubt or symptoms persist, seek medical attention. Have Safety Data Sheet information available. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air, if breathing has stopped, administer artificial respiration. Give nothing by mouth, seek immediate medical attention.

Eye contact: Irrigate with clean, fresh water for at least 15 minutes, holding the eyelids apart, and seek medical attention.

Skin contact: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognized skin cleaners. Do NOT use aromatic solvents, thinners or petroleum products.

Ingestion: If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Section -5. FIRE-FIGHTING MEASURES

Extinguishing agents

Recommended: Universal resistant foam, CO2, water, powder.

Agents to avoid: None known

Attention

Fire will produce dense black smoke. Exposure to decomposition products may cause a Health Hazard. Fire fighters should wear self-contained breathing apparatus.

Water mist may be used to cool closed containers to prevent pressure build-up and possible auto-ignition and explosion when exposed to extreme heat.

Do not weld, flame cut or expose to extreme heat or ignition sources, empty containers which have contained flammable products.

Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous decomposition products include: Carbon Dioxide, Carbon Monoxide, Nitrogen Oxides, Sulfur Oxides Metal Oxide / Oxides

Section -6. ACCIDENTAL RELEASE MEASURES

Eliminate sources of ignition, ventilate the area. Avoid breathing vapors by using appropriate respiratory protective equipment. Refer to protective measures listed in sections 7 & 8.

Collect spill with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean-up with a detergent/ water mix; avoid use of aromatic solvents. If the product enters drains or watercourses, inform authority with jurisdiction in accordance with state / local regulations.

Section -7. HANDLING AND STORAGE

7.1 Handling:

No smoking, eating and drinking during handling.

Avoid exposure during pregnancy.

Keep containers tightly closed. Prior to movement containers which are opened should be carefully resealed.

Avoid skin and eye contact. Avoid inhalation in case of exposure to vapor and spray mist.

Handle and open containers with care to avoid spilling of contents. Never use pressure to empty; container is not a pressure vessel. Clean or discard contaminated clothing and shoes.

Preparation may charge electrostatically; always use grounding/ bonding/ earthing leads when transferring contents of containers. Operators should wear antistatic footwear and clothing, and floors should be electrically conductive.

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air, and avoid vapor concentration higher than the Occupational Exposure Limits.

Use in areas from which local sources of ignition have been excluded. Electrical equipment including lighting should be protected to the appropriate standard. Isolate from sources of heat, sparks and open flame. Non-sparking tools are recommended.

7.2 Storage:

Observe label precautions. Store between 32/F and 95/F (0/C and 35/C) in a dry, clean and well ventilated place, away from sources of heat, ignition, and direct sunlight. For flash points below 23 °C store in an area constructed to the appropriate standard

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Engineering measures:

Avoid the inhalation of vapors, spray mist and particulates. Achieve by local exhaust ventilation providing good general extraction as to keep air-borne concentration below the Occupational Exposure Limits (OEL).

If local / area ventilation is not sufficient to comply with OEL, suitable (NIOSH) respiratory protection to be provided. Always provide suitable (NIOSH) respiratory protection when sanding, grinding or otherwise abrading cured material.

8.2 Exposure limits

Work place exposure limits (8 hour)

Substance	ACGIH TLV
Manganese Dioxide	TWA: 0.1mg/m³ (as Mn) 8 hours (Inhalable Fraction)
	TWA: 0.02mg/m³ (as Mn) 8 hours (Respirable Fraction)
Terphenyl, Hydrogenated	TWA: 4.9 mg/m ³ 8 hours
	TWA: 0.5 ppm 8 hours
Zeolites	TWA: 1mg/m³ 8 hours (Respirable Fraction)
Talc	TWA: 2mg/m³ 8 hours (Respirable Fraction)
Carbon Black	TWA: 3mg/m³ 8 hours (Inhalable Fraction)
Terphenyl	C: 5mg/m³
	C: 0.53 ppm
MAGNESIUM CARBONATE	TWA: 5mg/m³ (Respirable Fraction)
	TWA: 15 mg/m³ 8 hours (Total Dust)

8.3 Personal protection

All Personal Protective Equipment, including Respiratory Protection, used to control exposure to hazardous substances must be selected to meet the requirements of OSHA Regulations.

Respiratory protection:

Appropriate respiratory protection equipment should be selected according to the type of contaminants, following regulatory (OSHA / NIOSH) and manufacturers instructions including proper fitting of devices.

Hand protection:

For prolonged or repeated contact, recommend gloves type: polyvinyl alcohol, nitrile rubber, latex rubber (some people may exhibit sensitivity to Latex). Barrier creams may help to protect exposed areas of the skin. However, they should not be applied post exposure.

Eye protection:

Use safety glasses with side shields to protect against splashes. Face shields may also be worn.

Skin protection:

Protective clothing made of antistatic and fire resistant fibers. All parts of the body should be washed after contact. Use good hygiene and industrial practices, keep working clothes clean.

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9. PHYSICAL AND CHEMICAL PROPERTIES

 Physical state at: 68 º F (20 º C) Liquid • Flash point: 200 ° F (93 ° C) Method: TCC

• Specific gravity at: 68 ° F (20 ° C) 2.0

Vapor Density: N/A

• Lower Explosive Limit (% vol.): N/A • Upper Explosive Limit '(% vol.): N/A • Material Supports Combustion. : Yes

• Ph: 9.0

•% VOLATILE BY VOLUME - 2.0

• Vapor pressure at: 68 º F (20 º C) N/A

Color: BLACK

• Appearance: PASTE

• Odor: NEGLIGIBLE OILY ODOR

• Boiling Point: Unknown

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions (see SDS section 7). In case of combustion, may produce hazardous decomposition products such as:

Carbon monoxide

Oxides of nitrogen

Sulfur oxides

Metal Oxide / Oxides

Smoke

• Carbon Dioxide

• Manganese Compounds

11. TOXICOLOGICAL INFORMATION

There are no data available on the preparation itself. See (SDS Sections 3 and 15) for details.

Exposure to component solvents vapors at concentrations in excess of the stated Occupational Exposure Limits may result in adverse health

ACUTE TOXICITY:

PRODUCT:	RESULT	SPECIES	DOSE	EXPOSURE
Manganese Dioxide	LD50 ORAL	Rat	3478 mg/kg	-
Terphenyl, Hydrogenated	LD50 ORAL	Rat	17500 mg/kg	-
Zeolites	LD50 ORAL	Rat	>5 g/kg	-
Carbon Black	LD50 Dermal	Rabbit	>3 g/kg	-
	LD50 Oral	Rat	>15400mg/kg	-
Terphenyl	LD50 Oral	Rat	>1400 mg/kg	-
1, 3-Diphenylguanidine	LD50 Oral	Rat	323mg/kg	-
Magnesium Carbonate	LD50 Oral	Rat	8000mg/kg	

Acute Toxicity Estimates:

Oral: 1099.7 mg/kg

Inhalation (gases): 10532.1 ppm Inhalation (vapors): 25.75 mg/l Inhalation (Dust and Mist): 3.511mg/l

Specific Target Organ Toxicity (STOT)- Single Exposure

1,3-Diphenylguanidine - (Category 3) - Target Organ - Respiratory Tract Irritation

Zeolites - (Category 3) - Target Organ- Respiratory Tract Irritation Talc - (Category 3) - Target Organ- Respiratory Tract Irritation

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Manganese Dioxide - (Category 2) - Target Organs - Not Determined

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CARCINOGENICITY:

INGREDIENT	IARC	OSHA	NTP
Zeolites	3	-	-
Carbon Black, Respirable	2B	-	-
Powder			

This Product is Harmful if Swallowed or Inhaled.

This Product also Causes Serious Eye Irritation.

This Product Causes Skin Irritation, Defatting of the Skin, and May Cause an Allergic Reaction.

Target Organs: lungs, skin, central nervous system, blood, kidneys, nervous system, liver, spleen, lymphatic system, cardiovascular system, upper respiratory tract, bone marrow, eye, lens, cornea

Potential chronic health effects include the following:

May cause damage to organs through prolonged or repeated exposure. May lead to defatting of the skin and / or irritation.

May lead to allergic reactions.

Suspected of causing cancer.

Suspected of damaging fertility

12. ECOLOGICAL INFORMATION

There is no data available on the preparation itself. Do not allow the product to enter drains or water ways. See (SDS Sections 3 and 15)

Bioaccumulative Potential:

Product	LogPow	BCF	Potential
1,3 Diphenylguanidine	1.69	19.95	Low
Bis(piperidinothiocarbonyl)	2.8	16.98	Low
tetrasulfide			

Mobility in Soil:

Not Available

13. DISPOSAL CONSIDERATIONS

Recommended incineration or land fill as hazardous waste per Federal, State and local regulations. React with base and dispose of as hazardous waste per Federal, State and local regulations. Recommended incineration or land fill.

14. TRANSPORT INFORMATION

DOT: Not regulated

UN Number: Not regulated

IATA: Not regulated IMDG/IMO: Not regulated NMFC: 4620 SUB.5 – CL.60 Schedule B # 3506.91.0000

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15. REGULATORY INFORMATION

United States Inventory(TSCA 8B): All Components are Listed or Exempted
Australia Inventory (AICS): All Components are Listed or Exempted
Canada Inventory (DSL): All Components are Listed or Exempted
China Inventory (IECSC): All Components Are Listed Or Exempted
Japan Inventory (ENCS): All Components are Listed or Exempted
Korea Inventory (KECI): All Components are Listed or Exempted
New Zealand (NZIoC): All Components are Listed or Exempted
Philippines Inventory (PICCS): All Components are Listed or Exempted

Europe Inventory (REACH) : Please contact your supplier concerning the status of this material

Other EU Regulations:

1,3-Diphenylguanidine - Reproductive (Category 2) H361f (Fertility)

SARA 311/312

Classification: Immediate (acute) health hazard
Delayed (chronic) health hazard

Composition of Ingredients:

Manganese Dioxide: Immediate (acute) health hazard

Delayed (chronic) health hazard

Zeolites : Immediate (acute) health hazard

Polyphenyls, quarter and higher: Immediate (acute) health hazard

Talc : Immediate (acute) health hazard

Carbon Black : Fire Hazard

Delayed (chronic) health hazard

Terphenyl : Immediate (acute) health hazard

1,3-Diphenylguanidine: Fire Hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

Bis(piperidinothiocarbonyl): Fire Hazard

tetrasulfide Immediate (acute) health hazard

US Regulations Federal

chemical (s) subject to the reporting	Chemical Name	CAS No	Weight %	Threshold limit
requirements of section 313 of Title III				
and of 40 CFR 372 (SARA)				
	Manganese Dioxide	1313-13-9	<65%	Unknown

SARA notifications must remain attached to this SDS. Any copies and /or distribution of this SDS must include all SARA notifications.

All remaining Constituents are non-hazardous per FED-STD-313 All Constituents are listed in TSCA inventory; complete mixture is excluded Per TSCA Par. 710.4 (d) 95 (6) (7) Constituents are not listed in TSCA 12b CORR. LIST

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US Regulations State

California Proposition 65	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
(Developmental – Female)	MANGANESE DIOXIDE	1313-13-3	< 03/0	UTIKITOWIT
Massachusetts	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
New Jersey	MANGANESE DIOXIDE	1313-13-9	< 65%	unknown
Pennsylvania	MANGANESE DIOXIDE	1313-13-9	<65%	unknown
Rhode Island	MANGANESE DIOXIDE	1313-13-9	<65%	unknown

California Prop 65 Warning:

This Product contains one or more ingredients known by the state of California to cause cancer.



materials Division 2: Materials Causing Other Toxic Effects: Manganese Dioxide CAS#1313-13-9

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR. Listed National Pollutant Release Inventory (NPRI):Manganese Dioxide cas#1313-13-9

HEALTH	3	HEALTH	3
FLAMMABILITY	1	FLAMMABILITY	1
REACTIVITY	1	REACTIVITY	1
(OSHA) PPE	G	(OSHA) PPE	G







NFPA HMIS PPE

Section 16 Other Information

Full Text of H Statements Associated with this Compound:

ACUTE TOXICITY (ORAL) 4, H302
ACUTE TOXICITY (INHALATION) 4, H332
SKIN SENSITIZATION 1, H317
CARCINOGENICITY 2, H351
TOXIC TO REPRODUCTION (FERTILITY) 2, H361f
SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE 2, H373

Full Text of Classifications Associated with this Compound:

Acute Tox. 4, H302 : ACUTE TOXICITY (ORAL) - CATEGORY 4

Acute Tox. 4, H332 : ACUTE TOXICITY (INHALATION) - CATEGORY 4

Reproductive 2, H361f : TOXIC TO REPRODUCTION (FERTILITY) - CATEGORY 2

Skin Sensitization 1, H317: SKIN SENSITIZATION - CATEGORY 1

STOT RE 2, H373: SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - CATEGORY 2

Carcinogenicity 2, H351: CARCINOGENICITY - CATEGORY 2

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Preparer-Flamemaster/Compliance Rev A April 2015 Supercedes(Conversion) Revision Notes: A

Conversion to ANSI format

Containers: Plastic Jars, Metal Cans, Cartridge Kits

Maximum Container Size: 50 Gallons/190 Liters

END OF SAFETY DATA SHEET

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